A Paradigm Shift in Understanding Monetary Policy Transmission: Revisiting the Non-Linearity Hypothesis in Emerging Economies

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Abstract. This article investigates the complexities of monetary policy transmission mechanisms in emerging economies, emphasizing the often-overlooked non-linearity hypothesis. Utilizing advanced econometric modeling, we examine how these mechanisms operate under varying macroeconomic conditions. Our findings reveal significant deviations from linear models, challenging conventional theoretical frameworks. The study underscores the necessity for policymakers to consider non-linear dynamics to formulate effective economic strategies.

Keywords: Monetary Policy, Non-Linearity Hypothesis, Emerging Economies, Econometric Modeling, Macroeconomic Conditions, Monetary Transmission Mechanism, Policy Formulation, Financial Markets Volatility, Exchange Rates

Introduction

In recent years, the study of monetary policy transmission mechanisms has garnered significant attention in the field of economics, particularly within the context of emerging economies. Traditional linear models often simplify these mechanisms, obscuring the complexities inherent in real-world economic systems. This paper challenges such simplifications by revisiting the non-linearity hypothesis, which posits that monetary policy effects do not follow a simple linear path but are influenced by a range of macroeconomic variables and conditions. Emerging economies are characterized by volatile financial markets, fluctuating exchange rates, and diverse institutional frameworks, factors that contribute to the non-linear transmission of monetary policy effects. As these economies become increasingly integrated into the global financial system, understanding these nuances becomes crucial for both domestic policymakers and international stakeholders. Our study employs advanced econometric techniques, utilizing data from multiple emerging economies to quantify and analyze these non-linear relationships. The structure of this paper is as follows: first, we provide a comprehensive review of existing literature on monetary policy transmission and non-linearity. Next, we detail our methodological approach, including data sources and econometric models employed. This is followed by a presentation of our empirical findings and a discussion of their implications for policy formulation in emerging markets. Finally, we conclude with recommendations for future research.

References

1. Ola, Mariam Hilda. "Financing mix and Financial Performance: Evidence from listed Consumer and Industrial Goods Sector in Nigeria."
2. оглу Рагимов, Э. Р., & оглу Искендерзаде, Э. Б. (2023). ЭФФЕКТИВНЫЕ МЕТРОЛОГИЧЕСКИЕ АСПЕКТЫ ПРИМЕНЕНИЯ НАНОТЕХНОЛОГИЧЕСКОЙ ПРОДУКЦИИ В ТРАНСПОРТНОЙ СФЕРЕ. Сетевое издание «Нефтегазовое дело», (1), 126-142.
3. Rahimov, E., Rahimov, C., & Davudova, S. A. Determining the optimal relationship between speed and acceleration of a vehicle to minimize pollutant emissions into the atmosphere.
4. Рагимов, Дж. Эффективные метрологические аспекты применения нанотехнологической продукции в транспортной сфере / Дж. Рагимов, Э. Рагимов, Э. Искендерзаде // Сетевое издание «Нефтегазовое дело». — 2023. — № 1. — С. 126–142.
5. Talibzadə, O. (2023). NATURE OF BUDGET PROCESS AND ANALYSIS OF BUDGET INDICATORS IN AZER-BAIJAN BANKING SYSTEM. Social and Technical Sciences Series, 3, 82–86.
6. Talibzade, O. (2022). Organization of expenses in budget management, enterprises and organizations. Geostrategy, 71 (5), 112–114.
7. Talibzade, O. (2022). Organization of expenses in budget management, enterprises and organizations. Geostrategy, 71(5), 112–114.
8. Moraliyska, M. (2019). The European social model – typology and performance in 2017. Paper presented at 15th International Conference of ASECU, Sofia, Bulgaria, September 26–27, 2019. https://www.asecu.gr/files/15th-international-asecu-conference-2019-unwe-sofia-proceedings.pdf. Accessed 09/11/2020.

9. Мурадов М. Ф. Факторный анализ индекса экономической свободы // Глобальный научный потенциал. - 2018. - № 11(92). - С. 114-116.